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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,985	02/28/2002	Toru Nagara	450100-03806	1141
75	590 01/17/2003	•		
William S. Frommer, Esq. FROMMER LAWRENCE & HAUG LLP 745 Fifth Avenue			EXAMINER	
			NGUYEN, TUAN N	
New York, NY 10151		•	ART UNIT	PAPER NUMBER
		•	2828	2828
			DATE MAILED: 01/17/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Application (No. Applicant(s) Application (No. Applicant(s) Application (No. Appl	·					
## Defice Action Summary ## Tuan N Nguyen ## Tuan Ngu)	Application No.	Applicant(s)			
Tuan N Nguyen Tuan N Nguyen The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. The MAILING DATE of THIS COMMUNICATION. The MAILING DATE of THIS COMMUNICATION. The period for reply specified above is test then thirty (30) days, a reply within the dathlary minimum of thirty (30) days will be considered threaty. The period for reply specified datove is test then thirty (30) days, a reply with the dathlary minimum of thirty (30) days will be considered threaty. The period for reply specified datove is test then thirty (30) days, a reply with the dathlary minimum of thirty (30) days will be considered threaty. The period for reply specified datove is the state the mailing date of this communication, even if threaty filed, may reduce a my certain of patients and application. A proper yearly reviewed by the Office later than three mailing date of this communication, even if threaty filed, may reduce a my certain of patients and general as 30 TCR 1.70(4). This action is FINAL. This action is FINAL. This action is FINAL. This action is non-final. This action is FINAL. This action is non-final. This action is FINAL. This action is non-final. This action is final. This ac	* Office 4-45-11 October 19	10/084,985				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the providines of 3 CFR 1.136(a). In no eveil, however, may a reply be timely filled state VX, (9) MONTHS from the mailing date difficulty of 3 CFR 1.136(a). In no eveil, however, may a reply be timely filled state VX, (9) MONTHS from the mailing date of the communication of 3 CFR 1.136(a). In no eveil, however, may a reply be timely filled state VX, (9) MONTHS from the mailing date of the communication of this communication of this communication of the providence of the communication of the communication of the communication. Fallow to reply within the set or extended period for reply will, by detailable, cause the application to become ABANDONED (30 U.5.0.5 133). Cause of the second of the communication of the communication to exceed the providence of the communication. This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)	Office Action Summary	Examin r	$\cap M$			
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1) Responsive to communication(s) filed on	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-39 are rejected under 35 U.S.C 112, second paragraph, as being indefinite, vague, and confusing for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 35 recite, "a laser driving method for driving a laser light source for emission" and "a recording/reproducing method for casting a laser beam from a laser light source onto a recording medium to carry out recording and/or reproduction", "wherein a first power-supply voltage supplied to a laser driving circuit for driving the laser light source for emission is made higher than a second power-supply voltage supplied to circuits except the laser driving circuit." The claims recite "a laser driving method", however there is no steps in performing the method for driving the laser light source. It is not written in a means plus step functions — in which a single step is insufficient in performing "a laser driving method for driving a laser light source for emission or recording/reproducing method for casting a laser beam from a laser light source onto a recording medium to carry out recording and/or reproduction." The "wherein..." contain many insufficient structure and relationships which render the claims indefinite. Refer to claim 17 and 26 for clarificatio. Claims 2-16, and 36-39 are rejected based on the same reasons.

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Claims 14, 24, and 33 recite "... where in the case where the power of a driving pulse of the laser light source takes a plurality of values, the number of laser driving circuits supplied with the first power-supply voltage is made less than the number of control circuits for controlling the power of the plurality of values." The examiner do not understand what the claims claiming. The functional recitation has no structures or means and vague as to what is the "plurality of value"; what is the structural relationship between "the number of laser driving circuits with the first power-supply"?; and unclear to "is made less than the number of control circuits for controlling the power of the plurality of values." The claims are vague and indefinite, therefore it is not considered.

Claims 17 and 26 recite, "a laser driving device for driving a laser light source for emission" and "a recording/reproducing device for casting a laser beam from a laser light source onto a recording medium to carry out recording and/or reproduction", "wherein a first power-supply voltage supplied to a laser driving circuit for driving the laser light source for emission is made higher than a second power-supply voltage supplied to circuits except the laser driving circuit." The claims have no means for generating the first and second power supply voltage, and indefinite to laser light source. It is not clear as to what the "laser driving circuit" consisting of – optical or electrical circuitry use to drive "a laser generator" which produces "laser light source". It is indefinite as to what circuits the second light source is connecting to, while not connecting to the laser driving circuit or the laser generator. Claims 18-25 and 27-34 are rejected based on the same reasons.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of 35 U.S.C. 102(b) which forms the basis for all

obviousness rejections set forth in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 3-4, 6-9, 12-13, 17, 19-20, 22-23, 26, 28-32, 35, and 37-39 are rejected under

35 U.S.C. 103(a) as being unpatentable over Van der Putt (US 4685097).

With respect to claims 1, 3, 4, 17, 19, 20, 26, 28, 29, 35, 37 and 38 Van der Putt ('097)

discloses in the ABSTRACT power control system for a semiconductor in an optical recording

system having both read and write capability, where write signal is higher power than read

signal, and a light sensing diode used to control or adjusting the read and write current supplied

to the laser. There is also a step-up comparator, that is used to determine if the output power

from read or write is sufficient (Col 3: 0-15), capable of provide necessary voltage to the

operating voltage for output. Since Write power is higher than Read power, it is inherent that as

it sum of Read or Write with the Step-up comparator will provide a higher laser driving circuit.

In addition, the system inherently need and have a record medium in-order to perform its read

and write function. Since claims 1, and 35 recite the same or identical elements/limitations it is

inherent to use patents ('097) to recite the method of driving a laser light source, product by

process.

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With respect to claims 6, 13, 23, 30, 32 and 39, Van der Putt ('097) discloses in (Col 2: 40-69), first power supply decided on the operating voltage of read and write, by switch back and forth between Read and Write using diode feedback.

With respect to claims 7, 8, 9, 12, 22, and 31, Van der Putt ('097) discloses in (Col 3: 20-26) the circuit has memory function which remember the read write level when the system is shut-off, so it can restart the laser operation at the previous level state.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or non-obviousness.
- 6. Claims 2, 18, 27, 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van der Putt (US 4685097) in view of Sonnenschein et al (US 4975358). Van der Putt ('097)

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discloses the above except that the laser light source is a violet short-wave laser beam. Sonnenschein et al. discloses the use of violet short-wave laser in write, read and erasable in optical data storage (Col 4: 13-18). It would have been obvious to one of ordinary skill in the art to provide Van der Putt (US 4685097) the element as taught or suggested by Sonnenschein et al (US 4975358) for the benefit of having sharply defined, high resolution images on optical media.

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- 7. With respect to claims 10, and 11 Van der Putt ('097) discloses the above where system can restart the laser operation at the previous level state, after shut-off, except that the first power is set at Maximum and Minimum operating voltage. It would have been obvious to one of ordinary skill in the art to set the first power at Maximum or Minimum operating voltage, as a design choice, if the system can store and operate at the previous state after shut-off. It is well known that by starting system at previous or a optimal set state, the system can quickly achieve it predetermined value and has less overshoot.
- 8. Claims 15, 16, 25, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van der Putt (US 4685097) in view of Shinbori et al (US 6128040). Van der Putt ('097) discloses the above except auto-power shut-off in that as 1st power is off in a predetermined time, then the 2nd power to other circuit is also turn-off or when first laser light does not operate then supply to first power is stopped. Shinbori et al. ('040) discloses variable control of power supply uses in recording and reproducing apparatus where auto shut-off circuit is shutting down power source if an inoperative state continues for a predetermined time. It would have been obvious to one of

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ordinary skill in the art to provide Van der Putt (US 4685097) the element as taught or suggested

by Shinbori et al (US 6128040) for the benefit of saving power and resource when system is not

in used.

Citation of Pertinent References

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. It is cited primarily to show the product of the instant invention.

Hirikiri et al. (US005237558), Reele (US005438581A), Doi (US 4747091), Inaba et al.

(US005477557A), Hikasa et al. (US005859862A), Kagamibashi et al. (US005508986A),

Kawabuchi et al. (US005884122A), disclose laser driver circuit for optical disk recording and

reproducing with auto shut-off.

Communication Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tuan N Nguyen whose telephone number is (703) 605-0756. The

examiner can normally be reached on M-F: 7:30 - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 746-8592 for regular

communications and (703) 746-8592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1782.

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Tuan N. Nguyen

December 31